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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,260	12/15/2003		Werner Juengling	M4065.0236/P236-D	1480
24998	7590	05/19/2006	EXAMINER		
210110121		IRO MORIN & OS	WOJCIECHOWICZ, EDWARD JOSEPH		
2101 L Street, NW Washington, DC 20037				ART UNIT	PAPER NUMBER
8 .				2815	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/734,260	JUENGLING, WERNER					
Office Action Summary	Examiner	Art Unit					
	Edward Wojciechowicz	2815					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailing to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the state of the state	DN. imely filed In the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 26 Ap	<u>oril 2006</u> .						
2a) This action is FINAL . 2b) ⊠ This							
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>111,112,114-141,143-158 and 160-163</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>111,112,114-141,143-158 and 160-163</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	relection requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.	•					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents	• • • • • • • • • • • • • • • • • • • •						
3. Copies of the certified copies of the prior		ed in this National Stage					
application from the International Bureau	, , ,						
* See the attached detailed Office action for a list of	or the certified copies not receiv	ea.					
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summan	v (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)					

Application/Control Number: 10/734,260

Art Unit: 2815

DETAILED ACTION

Applicant's Terminal Disclaimer which was filed on 4-26-06 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 111, 112, 117, 136, 141, 157 and 158 are rejected under 35 U.S.C. 102(e) as being anticipated by Kwok et al (6,373,088). As shown in FIG. 2E, the Kwok reference teaches a metal-polysilicon contact having a polysilicon layer (210) formed over a substrate, a barrier layer (220) formed over the polysilicon layer, a conductive layer (230) formed over the barrier layer in an opening of an insulating layer (250), where the conductive layer has at least one vertically extending surface, and with an oxygen absorbing layer (240) formed of silicon nitride and adjacent to said conductive layer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 114-116, 118-135, 137-140, 143-156 and 160-163 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwok in view of Lou, of record. While Kwok teaches the basic combination of layers including an oxygen absorbing layer adjacent to the conductive layer, Lou, the explanation of which

is hereby incorporated by reference from the previous office actions, also teaches a similar arrangement of layers with additional configurations including plural, vertical oxygen absorbing layers, platinum conductive layers, and used in a capacitor arrangement. Kwok also teaches that his device structure may used in a DRAM memory cell, which would also include a capacitor arrangement, as claimed.

Kwok also teaches that different refractory metals may be used as the conductive layers, and while Kwok doesn't recite exactly the same claimed dimensions, his device structure is also formed in the nanometer ranger, and thus, the claimed dimensional ranges would be within the scope of the Kwok reference.

One skilled in the art would be motivated to combine these references in order to gain the benefit of more stable contacts to the memory devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward Wojciechowicz Primary Examiner Art Unit 2815